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1. Joint Institute of Nuclear Research, Laboratory of High-Energy Computer Center, Laborator; of Theoretical Physics, Dubna, U.S.S.R.

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L 23730-66 EWT(m)/T SOURCE CODE: UR/0367/65/001/002/0338/0350	**
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AUTHOR: Belyakov, V. A.; Veksler, V. I.; Viryasov, N. H.; Kladnitskays, Ye. N.— Kladnitskaya, E. N.; Kopylov, G. I.; Penev, V. N.; Solovyev, M. I.—Solovyev, M. I.	
ORG: Joint Institute of Nuclear Research (Ob"yedinennyy institut yadernykh issledovaniy)	
TITLE: Baryon resonances in pi- p-interactions at 7.5 ŒV with formation of strange particles	
SOURCE: Yadernaya fizika, v. 1, no. 2, 1965, 338-350	
TOPIC TAGS: baryon, meson, particle interaction, strange particle, hyperon, particle cross section	į
ABSTRACT: The formation and properties of resonances decaying into A-hyperons and nt- mesons were studied. Data are given on the formation cross sections for Y+ (1385) and Y+ (1660)-hypersons in $\pi$ - p-interactions at 7.5 GEV/c. The properties and formation characteristics of Y+ (1385)-hyperons and their decay products were investigated. The maximum in the mass spectrum $M_{A\pi}+\pi^-$ at the value 1770 MEV was discussed. The authors thank Professor M. I. Podgoretskiy and Professor I. V. Chuvilo for their interest in the work and their discussions; A. Mikhul, Nugen Din Ty. A. A. Kuznetsov, interest in the work and their discussions; A. Mikhul, Nugen Din Ty. A. A. Kuznetsov, Ye. S. Sokolova, Du Yuan'-tsay, Van Yun-chan and Kim Khi In for taking part in the first stage of the work. Further thanks is rendered N. F. Markov and V. Ye. Komolov, co-workers at the Computer Center, for carrying out the calculations and the group	
Card 1/2	

23730-66 CC NR: AP6014814 C laboratory workers for the 1	measurements. The au	thors also tha	nk V. G. Gri	shin,
nis work. Orig. art. has: 9	figures, 2 formulas,	and 4 tables		authors'
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### CIA-RDP86-00513R001860020018-5

L 23731-66 EWT(m)/T SOURCE CODE: UR/0367/65/001/002/0351/0365 ACC NRI AP6014815 AUTHOR: Belyakov, V. A.; Veksler, V. I.; Viryasov, N. M.; Kladnitskaya, Ye. N.-Kladnitskaya, E. N.; Kopylov, G. I.; Penev, V. N.; Soloviyev, M. I.-Solovyev, M. I. ORG: Joint Institute of Nuclear Research (Ob'yedinennyy institut yadernykh issledovaniy) TITIE: Meson resonances in pi- p-interactions at 7.5 GEV with formation of strange 50 particles 34 SOURCE: Yadernaya fizika, v. 1, no. 2, 1965, 351-365 ß TOPIC TAGS: pi meson, strange particle, particle interaction, K meson, mass spectrum Resonances decaying into K° ( $\overline{\text{K}}^{\circ}$ , K+) and  $\sigma$ -mesons are investi-ABSTRACT: gated. Cross sections are given for the formation of K\* (888) and k (730) -mesons in m- p-interactions at 7.5 GEV/c in events with KK pairs, and the contribution (in %) of k., K.-mesons in events with AK+ pairs is evaluated. Properties and formation characteristics of K\*+-mesons are described. Mass-spectra of the K2 7 and K3 7 systems are investigated. The possibility of the formation of a new resonance  $U = K^* + \pi^{\pm} + \pi^{\pm} + \pi^{\pm}$  with mass 1660 MEV is indicated. An attempt is made to determine its quantum numbers. Proofs are given for the production of a resonance with mass 1050 MEV, decaying into three r-mesons (r+r+r), which can be identified as the Al-meson. Card 1/2

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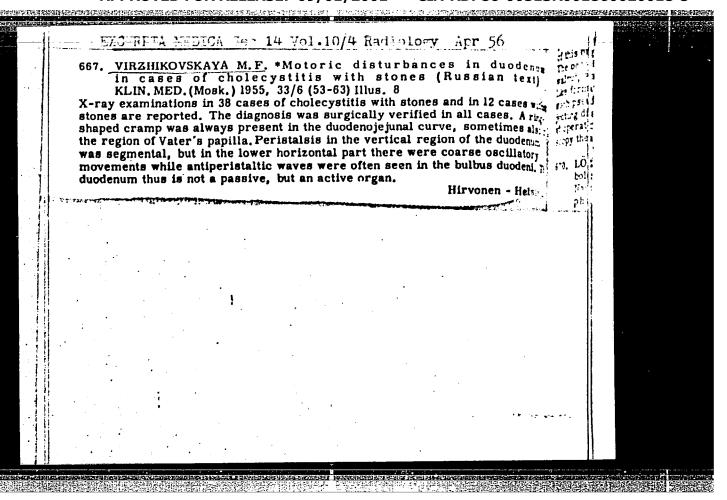
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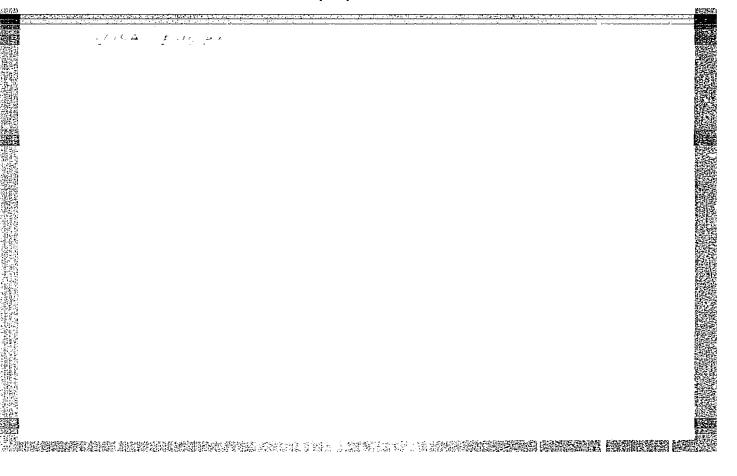
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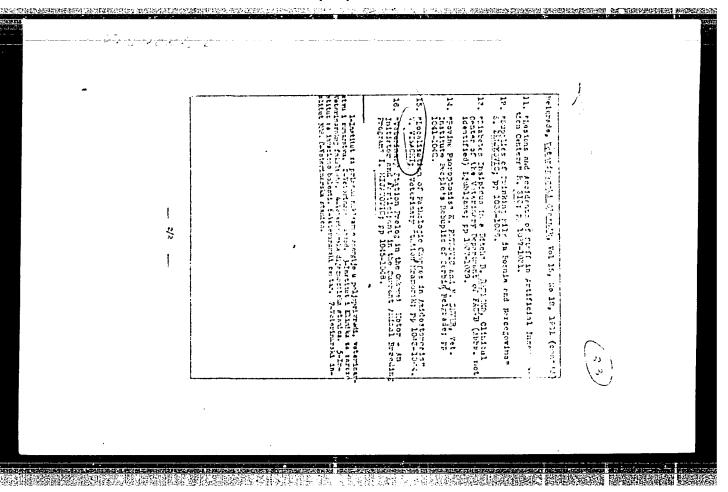
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ocular tuberc., relapse-inducing factors of eye & other inj.)

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             (ASCARIASIS
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             (HELMINTH INTECTIONS
                in horses, ther., piperazine)
             (PIPERAZINES, ther. use
                helminth & nematode infect. in horses)
            (HORSES, dis.
                helminth & nematode infect., ther., piperazine)
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Country: Yugoslavia

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Country: Yugoslavia

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APPHLICATION: Veterinary Station (Veterinarska stanica), Mramorak

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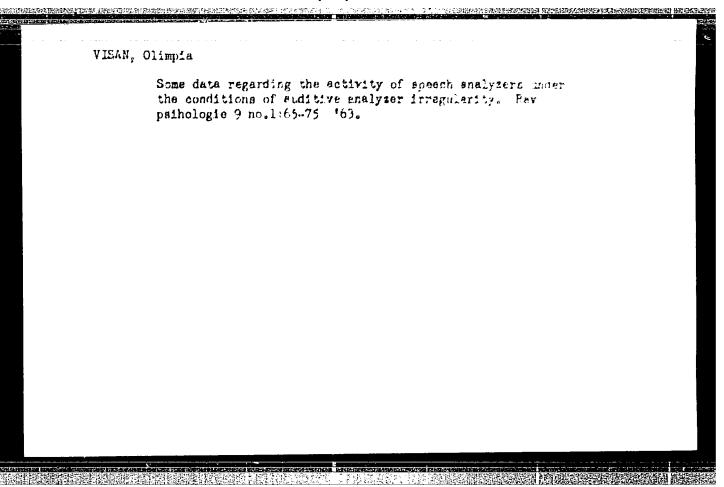
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Investigation of the semi-invariants of the statistical-geometric analogy for thin elastic shells of isotropic and orthotropic materials. Acta techn Hung 28 no.1/2:199-207 '60. (EEAI 9:7)

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Extension of static-geometric analogy to thin elastic shells with snisotropy of material. p.329

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10.9100

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16.7300

AUTHORS:

Visarion, V., Stenescu, Kr. (Bukharest)

TITLE:

Investigation of the quasiinvariants of the static-

geometric analogy for thin elastic shells

PERIODICAL:

Prikladnaya matematika i mekhanika, v. 25, no. 1, 1961,

68-75

TEXT: The authors apply the methods developed in previous papers to

orthotropic shells and find the factor  $\frac{2h^2\sqrt{E_{\alpha}E_{\beta}}}{\sqrt{3(1-\mu_{\alpha}\mu_{\beta})}}$ , by means of which

systems of equilibrium equations and continuity equations may be united to a single complex system. Besides, the Hooke equations may in this way be reduced to a system of three linear equations without differential between the complex stresses. The previous papers mentioned are by A. L. Gol'denveyzer dealing with isotropic shells, and by V. V. Novozhilov dealing with the static-geometric analogy. In the first part

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Investigation of the quasiinvariants ...

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of the paper the quasinvariants are dealt with. According to static-geometric analogy, the stresses, moments, stress functions, displacements, and deformation components, which enter into the homogeneous equations of the theory of thin shells, may be divided into two groups: Here, one element of the second group containing displacements and deformations corresponds to each element of the first, containing stresses, moments, and stress functions. The ratio (element e of the first group / element e\* of the second group) has the dimension of a force. The complex elements then have the form S<sub>e</sub> = e + i { (e)e\* . As quasiinvariant, a complex element (1.1) is described, to which the same element multiplied by a constant factor corresponds in static-geometric analogy. The authors then investigate the conditions at which S<sub>e</sub> is a quasiinvariant. The conditions of quasiinvariance read S<sub>e</sub> = KS\* or also e + i { (e)e\* = K [e\* + i f\* (e)e] . Herefrom, one obtains by comparing coefficients 1 = Ki f\* (e) , i f (e) = K, and further f\* (e) = -1/f (e) (1.5). f (e) has the dimension of a force: | f (e)| = | F|. The most general expression composed of all constants entering the static-geometric

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Investigation of the quasiinvariants ...

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analogy has the form (1.7).

$$\begin{cases} \xi(e) = F_1^m F_2^{m'} D_1^{p} D_2^{p'} \left(\frac{A_{12}}{A_{22}}\right)^q \left(\frac{A_{21}}{A_{22}}\right)^{q'} \left(2 \frac{A_{13}}{A_{22}}\right)^r \left(2 \frac{A_{22}}{A_{22}}\right)^{r'} \left(2 \frac{A_{21}}{A_{22}}\right)^{r'} \left(2 \frac{A_{21}}{A_{22}}\right)^{s'} \times \left(4 \frac{A_{22}}{A_{22}}\right)^{l} \left(\frac{a_{12}}{a_{11}}\right)^{u'} \left(-\frac{a_{12}}{a_{11}}\right)^{p'} \left(-\frac{a_{22}}{a_{11}}\right)^{p'} \left(-\frac{a_{22}}{a_{11}}\right)^{s'} \left(-\frac{a_{22}}{a_{21}}\right)^{s'} \left(-\frac{a_{22}}{a_{21}}\right)^{s'} \left(-\frac{a_{22}}{a_{22}}\right)^{s'} \left(-\frac{a_{22}}{a_{22$$

Here,  $\hat{\xi}(e)$  is assumed to be independent of the selected element, and then m=m', p=p', q=q', r=r', s=s', u=u', v=v', z=z' must hold; herefrom follows (1.8).

$$\xi = (F_1 F_2)^m (D_1 D_2)^p \left(\frac{A_{12} A_{21}}{A_{21}^2}\right)^q \left(4 \frac{A_{12} A_{22}}{A_{21}^2}\right)^r \left(4 \frac{A_{21} A_{22}}{A_{21}^2}\right)^s \left(4 \frac{A_{22}}{A_{21}}\right)^t \times \times \left(\frac{a_{12} a_{21}}{a_{11}^2}\right)^u \left(\frac{a_{13} a_{22}}{a_{11}^2}\right)^v \left(\frac{a_{21} a_{22}}{a_{11}}\right)^v \left(\frac{a_{22}}{a_{11}}\right)^w \quad \text{Let } \mathcal{E} \quad \mathcal{$$

Further, we write  $\frac{1}{5}$  for  $\frac{1}{5}$ (e). In the case of (1.5) there follows q = -u, r = -v, s = -z, t = -w, and herefrom (1.9).

$$\xi = \left(\frac{F_1 F_2}{D_1 D_2}\right)^{1/4} \left(\frac{A_{12} A_{21}}{a_{13} a_{21}} \frac{a_{11}^2}{A_{21}^3}\right)^q \left(4 \frac{A_{12} A_{22}}{a_{12} a_{22}} \frac{a_{11}^2}{A_{21}^2}\right)^r \left(4 \frac{A_{21} A_{22}}{a_{31} a_{32}} \frac{a_{11}^2}{A_{32}^3}\right)^\theta \left(4 \frac{A_{22}}{a_{32}} \frac{a_{11}}{A_{22}}\right)^t (1.9)$$

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Investigation of the quasiinvariants ...

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 $\triangle_{1} = \begin{bmatrix} -\mu_{\beta} & 1 & \eta_{\beta} \\ v_{\alpha} & v_{\beta} & 1 \end{bmatrix}$  (1.14). Above all, one obtains for isotropic and orthotropic shells  $\xi = \frac{2h^{2}E}{\sqrt{(1-2)}}$  and  $\xi = \frac{2h^{2}\sqrt{E_{\alpha}E_{\beta}}}{\sqrt{(1-2)}}$ 

respectively. The groups of the relations corresponding to one another in static-geometric analogy may be united into quasiinvariant complex systems, where the newly introduced functions turn out to be quasiinvariants. Thus, the systems of the equations of stress equilibrium and the equations for the continuity of deformations are in this way united to one single system, where the new unknown quantities are complex:

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Investigation of the quasiinvariants ...  $\frac{S/040/61/025/001/008/022}{B125/B204}$   $\frac{\partial}{\partial \alpha}(BT_1) + \frac{\partial A}{\partial \beta}S_1 - \frac{\partial}{\partial \beta}(AS_3) - \frac{\partial B}{\partial \alpha}T_2 - AB\left(\frac{N_1}{R_1'} - \frac{N_2}{R_{13}}\right) + ABX = 0$   $\frac{\partial}{\partial \alpha}(BS_1) - \frac{\partial A}{\partial \beta}T_1 + \frac{\partial}{\partial \beta}(AT_3) - \frac{\partial B}{\partial \alpha}S_1 - AB\left(\frac{N_1}{R_1'} - \frac{N_1}{R_{13}}\right) + ABY = 0$   $AB\left(\frac{T_1}{R_1'} + \frac{T_2}{R_1'} + \frac{S_3 - S_1}{R_{13}}\right) + \frac{\partial}{\partial \alpha}(BN_1) + \frac{\partial}{\partial \beta}(AN_2) + ABZ = 0$   $\frac{\partial}{\partial \alpha}(BH_1) + \frac{\partial A}{\partial \beta}G_1 - \frac{\partial}{\partial \beta}(AG_3) - \frac{\partial B}{\partial \alpha}H_2 + ABN_3 = 0$   $\frac{\partial}{\partial \alpha}(BG_1) - \frac{\partial A}{\partial \beta}H_1 + \frac{\partial}{\partial \beta}(AH_3) - \frac{\partial B}{\partial \alpha}G_2 - ABN_1 = 0$   $S_{1'} + S_2 + \frac{H_1}{R_{1'}} + \frac{H_3}{R_{1'}} + \frac{G_3 - G_1}{R_{13}} = 0 \qquad (2.1)$ 3gecb  $T_1 = T_1 + i\xi \varkappa_4, \quad S_1 = S_1 + i\xi \chi^{(3)}, \quad N_1 = N_1 - i\xi \xi_2$   $T_2 = T_3 + i\xi \varkappa_1, \quad S_3 = S_2 + i\xi \chi^{(1)}, \quad N_3 = N_3 + i\xi \xi_1$   $G_1 = G_1 + i\xi \varepsilon_3, \quad H_1 = H_1 - i\xi \omega^{(3)}$   $G_2 = G_2 + i\xi \varepsilon_1, \quad H_3 = H_2 - i\xi \omega^{(1)}$ 

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Investigation of the quasiinvariants ...

In addition, there is  $\overrightarrow{H}_1 + \overrightarrow{H}_2$ . Also the relations between the stresses and stress functions on the one hand, and the relations between the deformations and displacements on the other hand, may be combined to one single system between complex stresses and complex stress functions:

$$T_{1} = \frac{1}{B} \frac{\partial}{\partial \beta} \left( \frac{1}{B} \frac{\partial c}{\partial \beta} + \frac{b}{R_{1'}} - \frac{a}{R_{11}} \right) + \frac{1}{AB} \frac{\partial B}{\partial \alpha} \left( \frac{1}{A} \frac{\partial c}{\partial \alpha} + \frac{a}{R_{1'}} - \frac{b}{R_{11}} \right) - \frac{n}{R_{12}} \right) \cdot 1$$

$$T_{2} = \frac{1}{A} \frac{\partial}{\partial \alpha} \left( \frac{1}{A} \frac{\partial c}{\partial \alpha} + \frac{a}{R_{1'}} - \frac{b}{R_{13}} \right) + \frac{1}{AB} \frac{\partial A}{\partial \beta} \left( \frac{1}{B} \frac{\partial c}{\partial \beta} + \frac{b}{R_{1'}} - \frac{a}{R_{11}} \right) + \frac{n}{R_{12}}$$

$$S_{1} = -\frac{1}{B} \frac{\partial}{\partial \beta} \left( \frac{1}{A} \frac{\partial c}{\partial \alpha} + \frac{a}{R_{1'}} - \frac{b}{R_{11}} \right) + \frac{1}{AB} \frac{\partial B}{\partial \alpha} \left( \frac{1}{B} \frac{\partial c}{\partial \beta} + \frac{b}{R_{1'}} - \frac{a}{R_{12}} \right) + \frac{n}{R_{2}}$$

$$S_{2} = \frac{1}{A} \frac{\partial}{\partial \alpha} \left( \frac{1}{B} \frac{\partial c}{\partial \beta} + \frac{b}{R_{1'}} - \frac{a}{R_{12}} \right) - \frac{1}{AB} \frac{\partial A}{\partial \beta} \left( \frac{1}{A} \frac{\partial c}{\partial \alpha} + \frac{a}{R_{1'}} - \frac{b}{R_{11}} \right) + \frac{n}{R_{1}}$$

$$N_{1} = -\frac{1}{B} \frac{\partial n}{\partial \beta} - \frac{1}{R_{2'}} \left( \frac{1}{A} \frac{\partial c}{\partial \alpha} + \frac{a}{R_{1'}} - \frac{b}{R_{12}} \right) - \frac{1}{R_{12}} \left( \frac{1}{B} \frac{\partial c}{\partial \beta} + \frac{b}{R_{2'}} - \frac{a}{R_{11}} \right)$$

$$N_{2} = \frac{1}{A} \frac{\partial n}{\partial \alpha} - \frac{1}{R_{1'}} \left( \frac{1}{B} \frac{\partial c}{\partial \beta} + \frac{b}{R_{2'}} - \frac{a}{R_{12}} \right) - \frac{1}{R_{12}} \left( \frac{1}{A} \frac{\partial c}{\partial \alpha} + \frac{a}{R_{1'}} - \frac{b}{B} \right)$$

$$C_{1} = \frac{1}{B} \frac{\partial \beta}{\partial \beta} - \frac{1}{AB} \frac{\partial R}{\partial \alpha} - \frac{c}{R_{1'}} - \frac{a}{R_{1'}} - \frac{1}{B} \frac{\partial A}{\partial \beta} - \frac{1}{AB} \frac{\partial A}{\partial \beta} - \frac{c}{R_{1'}} - \frac{c}{AB$$

. Здесь

 $a = a + i\xi u, \quad b = b + i\xi v, \quad c = c + i\xi w$  (2.5)

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Investigation of the quasiinvariants ...

S/040/61/025/001/008/022 B125/B204

 $n = \frac{1}{2AB} \left[ \frac{\partial}{\partial \beta} \left( Aa \right) - \frac{\partial}{\partial \alpha} \left( Bb \right) \right] \qquad (2.6). \text{ Next, equations with various} \\ \text{quantities are investigated. According to the results of the foregoing} \\ \text{paragraph, it is possible to write down the Hooke equations as three} \\ \text{linear relations without differential, which connect the complex moments} \\ \overrightarrow{G}_1, \overrightarrow{G}_2, \overrightarrow{H}_1 \text{ and the complex stresses } \overrightarrow{T}_1, \overrightarrow{T}_2, \overrightarrow{S}_2 \text{ with one another.} \\$ 

$$G_{1} = -\frac{2h^{3}}{3} A_{22} \left( \frac{A_{11}}{A_{12}} \times_{1} + \frac{A_{12}}{A_{12}} \times_{2} + 2 \frac{A_{19}}{A_{13}} \tau \right)$$

$$G_{2} = -\frac{2h^{3}}{3} A_{22} \left( \frac{A_{21}}{A_{12}} \times_{1} + \times_{2} + 2 \frac{A_{22}}{A_{23}} \tau \right)$$

$$H_{1} = -H_{2} = \frac{2h^{3}}{3} A_{22} \left( \frac{A_{31}}{A_{22}} \times_{1} + \frac{A_{32}}{A_{22}} \times_{2} + 2 \frac{A_{33}}{A_{22}} \tau \right)$$

Card 8/10

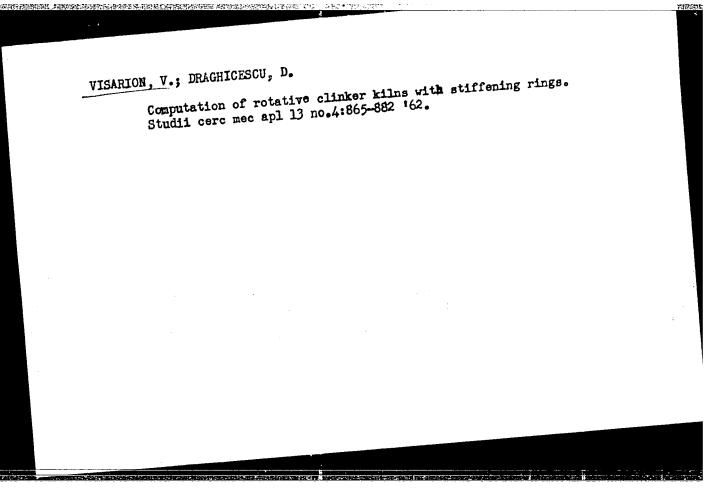
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Investigation of the quasiinvariants ...  $\frac{S/040/61/025/001/008/022}{B125/B204}$   $G_1 = \frac{lc_2}{2} \{a_{11}[(1+\lambda_1)T_1 + (1-\lambda_1)\overline{T_1}] + a_{12}[(1+\lambda_1)T_2 + (1-\lambda_2)\overline{T_2}] + a_{12}[(1+\lambda_2)S_1 + (1-\lambda_2)S_1]\}$   $G_2 = \frac{lc_2}{2} \{a_{11}[(1+\frac{1}{\lambda_1})T_1 + (1-\frac{1}{\lambda_2})\overline{T_1}] + a_{12}[(1+\lambda_2)S_1 + (1-\lambda_2)S_1]\}$   $H_1 = \frac{lc_2}{4} \{a_{21}[(1+\lambda_2)T_2 + (1-\lambda_4)\overline{T_2}] + a_{22}[(1+\lambda_2)T_2 + (1-\lambda_2)\overline{T_2}] + a_{22}[(1+\lambda_2)T_1 + a_{22}[(1+\lambda_2)T_2 + (1-\lambda_2)\overline{T_2}] + a_{22}[(1+\lambda_2)T_2 + (1-\lambda_2)\overline{S_1}]\}$   $C_3 = h^{1/2} \frac{A_{11}A_{11}}{a_{21}}, \quad \lambda_1 = \frac{A_{11}}{a_{21}} \sqrt{\frac{A_{11}A_{21}}{A_{11}A_{21}}}, \quad \lambda_2 = \sqrt{\frac{A_{11}a_{11}}{A_{12}a_{21}}}$   $\lambda_3 = -\frac{2A_{11}}{a_{21}} \sqrt{\frac{a_{11}a_{21}}{A_{11}A_{21}}}, \quad \lambda_4 = \frac{A_{21}}{a_{21}} \sqrt{\frac{a_{11}a_{21}}{A_{11}A_{21}}}, \quad \lambda_5 = -\frac{2A_{21}}{a_{21}} \sqrt{\frac{a_{11}a_{21}}{A_{11}A_{21}}}$   $\lambda_6 = -\frac{2A_{21}}{a_{11}} \sqrt{\frac{a_{11}a_{21}}{A_{11}A_{21}}}, \quad \lambda_7 = -\frac{2A_{21}}{a_{22}} \sqrt{\frac{a_{11}a_{21}}{A_{11}A_{21}}}, \quad \lambda_8 = \frac{4A_{21}}{a_{21}} \sqrt{\frac{a_{11}a_{21}}{A_{11}A_{21}}}$   $Card_{10}$ 

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Investigation of the quasiinvariants			iants	S/040/61/025/001/008/022 B125/B204		
Thus, the of the the 8 Soviet-b	systems (2.1 ory of thin loc and 2 no	), (2.4), homogeneou n-Soviet-1	and (3.1) comus shells. The	bine all prince ere are 11 refe	pal equations rences:	1
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VISARION, V.; DREGICHESKU, D. [Draghicescu, D.]

Computation of rotary cement furnaces with rigidity rings. Rev mec appl 8 no.3:481-500 163.



1/008/60/000/005/007/014 A231/A126

10 9100

Visarion, V., and Stănescu, C.

AUTHORS: On the formal reduction of the state of over-all stress of thin TITLE:

elastic shells to the state of pure "quasi-invariable" moments

Studii pi Cercetări de Mecanică Aplicată, no. 5, 1960, 1195-PERIODICAL:

In a previous paper the same authors (Ref. 1: V. Visarion, .C. Juanescu, Teoria cvasiinvariantilor analogiei statico-geometrice pentru în-TEXT: velitorile anizotrope, P. M. M. Moscova, sub tipar) have introduced the "quasi-invariable" concept for shells of non-isotropic material and have shown the existence of a complex quasi-invariable expression for equations of the theory of thin shells and boundary conditions. The system of equilibrum equations in forces and moments, and the equations of the distortion continuity are comprised in a system

 $\frac{\partial}{\partial \alpha} (B\widetilde{\mathfrak{N}}_{\alpha}) + \frac{\partial A}{\partial \beta} \widetilde{\mathfrak{N}}_{\alpha\beta} - \frac{\partial}{\partial \beta} (A\widetilde{\mathfrak{N}}_{\beta\alpha}) - \frac{\partial B}{\partial \alpha} \widetilde{\mathfrak{N}}_{\beta} - AB \left( \frac{\widetilde{Q}_{\alpha}}{R_{1}} - \frac{\widetilde{Q}_{\beta}}{R_{12}} \right) = 0;$ 

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On the formal reduction of the state of ...

formal reduction of the state of ...
$$\frac{\partial}{\partial \alpha} (B\widetilde{N}_{\alpha\beta}) - \frac{\partial A}{\partial \beta} \widetilde{N}_{\alpha} + \frac{\partial}{\partial \beta} (A\widetilde{N}_{\beta}) - \frac{\partial B}{\partial \alpha} \widetilde{N}_{\beta\alpha} - AB \left( \frac{\widetilde{Q}_{\beta}}{R_{i}} - \frac{\widetilde{Q}_{\alpha}}{R_{12}} \right) = 0,$$

$$AB \left( \frac{\widetilde{N}_{\alpha}}{R_{i}} + \frac{\widetilde{N}_{\beta}}{R_{i}} + \frac{\widetilde{N}_{\beta\alpha} - \widetilde{N}_{\alpha\beta}}{R_{12}} \right) + \frac{\partial}{\partial \alpha} (B\widetilde{Q}_{\alpha}) + \frac{\partial}{\partial \beta} (A\widetilde{Q}_{\beta}) = 0,$$

$$\frac{\partial}{\partial \alpha} (B\widetilde{M}_{\alpha\beta}) + \frac{\partial A}{\partial \beta} \widetilde{M}_{\alpha} - \frac{\partial}{\partial \beta} (A\widetilde{M}_{\beta}) - \frac{\partial B}{\partial \alpha} \widetilde{M}_{\beta\alpha} + AB\widetilde{Q}_{\beta} = 0,$$

$$\frac{\partial}{\partial \alpha} (B\widetilde{M}_{\alpha}) - \frac{\partial A}{\partial \beta} \widetilde{M}_{\alpha\beta} + \frac{\partial}{\partial \beta} (A\widetilde{M}_{\beta\alpha}) - \frac{\partial B}{\partial \alpha} \widetilde{M}_{\beta} - AB\widetilde{Q}_{\alpha} = 0,$$
(1)

The supplementary quasi-invariable equations  $\widetilde{\mathbb{W}}_{\alpha\beta}+\widetilde{\mathbb{W}}_{\beta\alpha}=0$ . (2) is attached to this system. Hooke's law can be expressed by three non-differential quasi-invariable equations, which connect the complex forces and moments. These complementary equations are:

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CIA-RDP86-00513R001860020018-5" **APPROVED FOR RELEASE: 09/01/2001** 

R/008/60/000/005/007/014

On the formal reduction of who state of ...

$$\widetilde{\mathfrak{M}}_{\alpha} = i \frac{h}{\sqrt{3(1-\mu^{2})}} (\widetilde{\mathfrak{N}}_{\beta} - \mu \widetilde{\widetilde{\mathfrak{N}}}_{\alpha}),$$

$$\widetilde{\mathfrak{M}}_{\beta} = i \frac{h}{\sqrt{3(1-\mu^{2})}} (\widetilde{\mathfrak{N}}_{\alpha} - \mu \widetilde{\widetilde{\mathfrak{N}}}_{\beta}),$$

$$\widetilde{\mathfrak{M}}_{\alpha\beta} = i \frac{h}{\sqrt{3(1-\mu^{2})}} (\widetilde{\mathfrak{N}}_{\alpha\beta} + \mu \widetilde{\mathfrak{N}}_{\alpha\beta}).$$
(3)

The limit conditions can be expressed in a complex form. In the present article the authors show, on the basis of the above equations, that the theory of thin elastic isotropic shells applied to forces and moments can be expressed only by the quasi-invariable moments, the moments acting on a membraneless shell, the median surface of which maintains the geometry of the median surface of the shell, but provided with imaginary thickness and modified elastic characteristics. For this purpose, the authors introduce:

 $h_* = i\sqrt{\frac{h}{3(1-\mu^2)}}$  (4), h<sub>\*</sub> being the semi-thickness of the membraneless shell. Then, considering  $\mu_{\star} = -\mu^{-}$ , to be the Poisson coefficient for the membraneless shell, the equations (3) obtain the form of the expressions

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$$\widetilde{\mathfrak{M}}_{a} = -\frac{2Eh_{\bullet}^{3}}{3(1-\mu^{2})}(\chi_{1}^{*} + \mu_{\bullet}\chi_{2}^{*}), \ \widetilde{\mathfrak{M}}_{b} = -\frac{2Eh_{\bullet}^{3}}{3(1-\mu^{2})}(\chi_{1}^{*} + \mu_{\bullet}\chi_{1}^{*})$$

$$\widetilde{\mathfrak{M}}_{a\beta} = 2Eh_{\bullet}^{3} \frac{1}{1+\mu_{\bullet}} \tau^{*}.$$
(7)

These equations are identical with the equations of Hooke, which connect the moments with the bending components of the distortion. The values 14, 12, and T\*, represent the components of the bending distortion of the membraneless shell. Introducing the relations (5) into the first three equations of (1), one obtains the relations

e obtains the relations
$$-\frac{\partial}{\partial \alpha} (B \chi_{2}^{*}) + \frac{\partial A}{\partial \beta} \tau^{*} + \frac{\partial}{\partial \beta} (A \tau^{*}) + \frac{\partial B}{\partial \alpha} \chi_{1}^{*} - A B \left( \frac{\zeta_{2}^{*}}{R_{1}^{*}} + \frac{\zeta_{1}^{*}}{R_{12}} \right) = 0,$$

$$\frac{\partial}{\partial \alpha} (B \tau^{*}) + \frac{\partial A}{\partial \beta} \chi_{2}^{*} - \frac{\partial}{\partial \beta} (A \chi_{1}^{*}) + \frac{\partial B}{\partial \alpha} \tau^{*} + A B \left( \frac{\zeta_{1}^{*}}{R_{2}^{*}} + \frac{\zeta_{2}^{*}}{R_{12}} \right) = 0,$$

$$-A B \left( \frac{\chi_{2}^{*}}{R_{1}^{*}} + \frac{\chi_{1}^{*}}{R_{2}^{*}} + \frac{2\tau^{*}}{R_{12}} \right) + \frac{\partial}{\partial \alpha} (B \chi_{2}^{*}) - \frac{\partial}{\partial \beta} (A \chi_{1}^{*}) = 0,$$

$$(8)$$

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On the formal reduction of the state of ...

after considering the law of Hooke for complex cutting forces  $\frac{2E\hbar^2}{\pi}$  ,

$$Q_{\alpha} = \frac{3(1-\mu^2)}{3(1-\mu^2)} \xi_2^{\alpha},$$

(9)

 $\widetilde{Q}_{\beta} = -\frac{2E\hbar_{\star}^2}{3\left(1-\mu_{\star}^2\right)} \; \zeta_1^{\star} \; . \label{eq:Qbeta}$ 

The system (8) coincides with the continuity equations of the distortion, which connects the components of the bending distortion. For the membraneless shell, there is a Hooke's law between the complex cutting forces and the values  $\binom{*}{1}$ ,  $\binom{*}{2}$ . Thus, the fourth and the fifth equations of the system (1) have to be solved, to which the equations (2), (7) and (8) will be attached. The limit conditions can be transcribed in values which are specific for the new expression, starting from the quasi-invariable limit conditions. This expression simplifies the calculation; however it is necessary to mention several calculation rules for the value of  $\mu_{*}$ . If  $\lambda$  is an arbitrary complex value, then  $i\mu_{*} = -\mu_{*} i\lambda$ , and then  $h_{*} \mu_{*} = -\mu_{*} h_{*} \lambda$ ,  $\mu$  is anticommutative by multiplying it with  $h_{*}$ . It also results:  $\mu_{*} = \mu_{*} \mu_{*} = \mu_{*}$ . There are 3 Soviet bloc references.

SUBMITTED:

March: 12, 1960

Card 5/5

VISARION, V.

"Calculation of thin elastic coverings having small curvature and orthotropic material"

p. 1029 (Comunicarile, Vol. 7, Nc. 12, Dec. 1957, Bucharest, Rumania)

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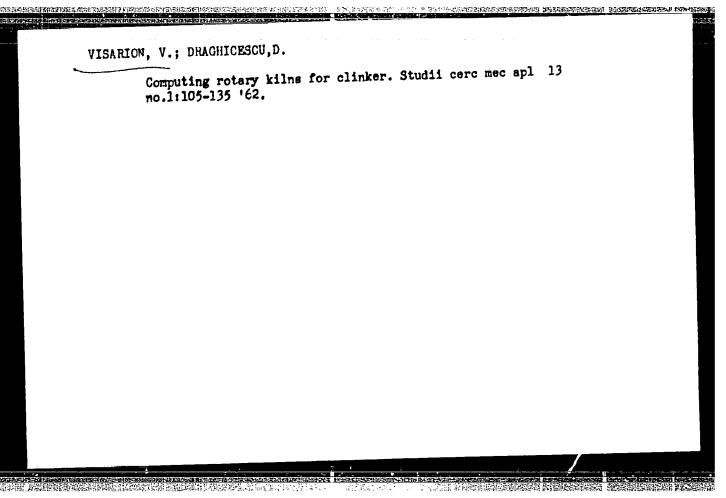
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(Elastic plates and shells)

(Elastic plates and shells)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860020018-5"



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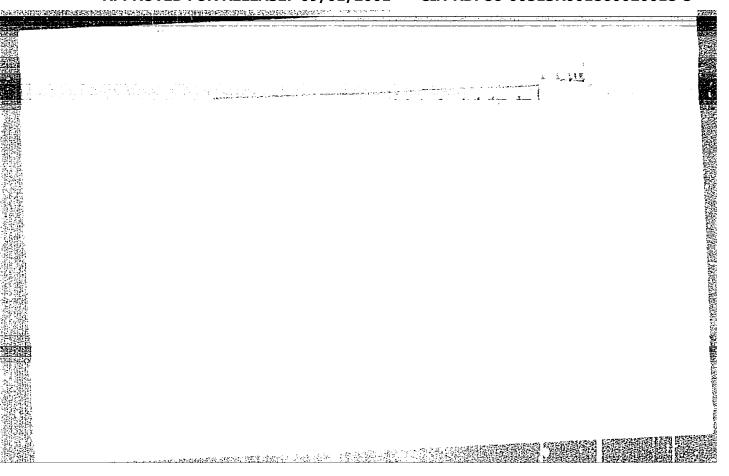
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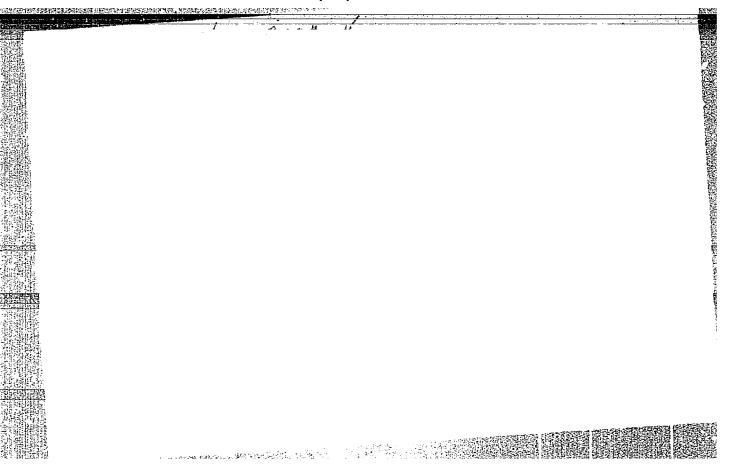
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State of stresses and moments of thin spherical surfaces. p. 535. Academia Republicii Populare Romine. Institutul de Mecanica Aplicata. STUDII SI CERCETARI DE MECANICA APLICATA, Bucuresti. Vol. 6, no. 3/4, July/Dec. 1955.

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Constructing more effectively working cooling systems for fluidized bed kilns and their increased productivity. Min delo 18 no.9:19-22 S '63.

1. Olovno-tsinkov zavod, Kurdzhali.

VISBARAITE, Ya. I.

"Splitting-up into triplets of the carbon atoms in the configuration 1s<sup>2</sup>2s<sup>2</sup>2p3p." by Ya. I Visbaraite (p 265)

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QUERCI, Mario, Dr.; VISCA, Aldo, Dr.; HARKANYI, Istvan, Dr.; AMASIO, Claudio, Dr.

General anesthesia in pediatric surgery. Magy. sebeszet 12 no.1: 69-74 Mar 59.

1. A torinoi Tudomanyegyetem Altalanos Sebeszeti Klinikajanak (Igazgato: Dogliotti Achille Mario dr. egyetemi tanar) es Anaesthesiologus Szakorvoskepzo Iskolajanak (Iskolavezeto: Giocatto Enrico dr. egyet. m. tanar) kozlemenye.

(PEDIATRICS, surg. anesth., general (Hun)) (ANTSTHES IA in pediatric surg. (Hun))

QUERCI, Mario, Dr.; VISCA, Aldo, Dr.; HARKANYI, Istvan, Dr. Peridural anesthesia in prostatectomy. Magy. sebeszet 12 no.2:144-149 Mar 59. 1. A Torinoi Tudomanyegyetem Altalanos sebeszeti Klinikajanak (Igazgato: Dogliotti Achille Mario dr. Egyetemi tanar) es Anaesthesiologus Szakorvoskepzo Iskolajanak (Iskolaveszeto: Giocatto Enrico dr. egyetemi m. tanar) kozlemenye. (PROSTATECTOMY peridural anesth. (Hun)) (ANESTHESIA, SPINAL perioural in prostatectomy (Hun))

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39128 S/058/62/000/006/064/136 A061/A101

24.7700

Viscakas, J., Stonkus, S.

AUTHORS: Growth and some physical properties of CdSe single crystals

TITLE:

Referativnyy zhurnal, Fizika, no. 6, 1962, 11, abstract 6E89 ("Uch.zap. Vil'nyussk. un-t. Matem., fiz.," 1960, v. 33, no. 9, PERIODICAL: 149 - 160, Lith.; Russian summary)

CdSe single crystals were grown by the Frerikhs method. The most convenient way of growing the single crystals was found to be CdSe sublimation. The single crystals, grown in H2 with a Cl2 admixture (type A) possessed higher TEXT: dark resistance and higher relative photosensitivity, than those grown in pure H2 (type B). Dark current, photocurrent, and the index, m, of the lux-ampere characteristic were found to have maximum values within a definite temperature range. The forbidden band width, determined from the red boundary of photoconductivity, diminishes with temperature increase. In the range of 291 - 78°K it narrows down at a rate of 0.00033 - 0.00023 ev/deg. The relaxation of photoconductivity of CdSe single crystals follows a power law at room temperature. Oc-

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Growth and some physical properties...

S/058/62/000/006/064/136 A061/A101

casionally, two relaxation times are observed in photocurrent growth: 1-2 and 4-8 msec. The relaxation time of photoconductivity drop is 0.2-0.6 msec. There are 24 references.

[Abatracter's note: Complete translation]

Card 2/2

L 29609-66 EWT(m)/E#P(t)/ETI IJP(c) JD
ACC NR: AT6012819 SOURCE CODE: UR/2910/6

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CC NR: AT6012819 SOURCE CODE: UR/2910/65/005/001/0109/0114

AUTHOR: Vishchakas, Yu. K.; Viscakas, J.; Kavalyauskene, G. S.; Kavaliauskiene, G.

ORG: <u>Vilnius State University im. V. Kapsukas</u> (Vil'nyusskiy Gosudarstvennyy universitet)

TITLE: Investigation of dark relaxation of the electrostatic potential in xero-graphic selenium layers 4

SOURCE: AN LitSSR. Litovskiy fizicheskiy sbornik, v. 5, no. 1, 1965, 109-114

TOPIC TAGS: electrophotography, relaxation process, dark current, selenium

ABSTRACT: The authors study the effect of temperature on the dark potential reduction in xerographic layers. The potential relaxation process is studied in selenium from 10 to  $60^{\circ}$ C. The xerographic films were produced by vaporizing selenium in a vacuum of  $5\cdot 10^{-4}$  mm Hg on Duralumin substrates. A dynamic electrometer was used for measuring the relaxation in dark potential. An EN^-1 oscillograph was used as the indicator at the output of the electrometer amplifier. The potential was measured one second after charging. It was found that dark relaxation of the potential at

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# "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860020018-5

L 29609-66

ACC NR: AT6012819

various temperatures may be described by hyperbolic curves of the type

$$V = \frac{V_0}{(1+at)^2} \,, \tag{1}$$

where  $V_0$  is the initial potential; V is the potential at time t; a and a are parameters of the hyperbola which depend on the temperature and conditions under which the layer was prepared. The change in potential for freshly prepared selenium film conforms to two or, occasionally, three hyperbolas. The time for transition from the first hyperbola to the second depends on temperature. After three or four months, the potential relaxation of the layers conforms to a single hyperbola. The drop in potential is similar for both positively and negatively charged layers, with differences only in the numerical values of the parameters  $\alpha$  and  $\alpha$ . Values of  $\alpha$  were found to vary from 0.05 to 0.90. The rate of dark discharge is a linear function of temperature in most cases. Experimental results showed that instantaneous relaxation time at the given potential is an exponential function of temperature and is

determined by the rollowing expression:  $\Theta = R_{\frac{\lambda + V}{2T}} \cdot C_{\frac{\lambda + V}{2T}} = \Theta\left(V\right) e^{\frac{\lambda E}{kT}}. \tag{2}$  where  $R_{eff}$  and  $C_{eff}$  are the effective resistance and capacitance of the layer respectively. T is the temperature,  $\Delta E$  is the activation energy. This expression holds

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L 29609-66 ACC NR: AT6012819 0

for both positively and negatively charged layers. The activation energy differs only slightly for the various layers and the average is 0.54\*0.05 and 0.28\*0.05 everage for positively and negatively charged layers respectively. A theoretical explanation is given for the experimental results. Orig. art. has: 6 figures, 1 table, 2 formulas.

SUB CODE: 20/ SUBM DATE: 15Jun64/ ORIG REF: 002/ OTH REF: 002

Card 3/3 CC

L 29608-66 EWT(1)/EWT(m)/EWP(t)/ETI IJP(c) AT/JD ACC NR: AT6012822 SOURCE CODE: UR/2910/65/005/001/0129/0134

AUTHOR: Vishchakas, Yu. K.; Viscakas, J.; Vaytkus, Yu. Yu.; Vaitkus, J.

4 ] B+]

ORG: Vilnius State University im. V. Kapuskas (Vil'nysskiy Gosudarstvennyy universitet)

TITLE: Spectral distribution of photoconductivity in polycrystalline cadmium selenide layers

SOURCE: AN LitSSR. Litovskiy fizicheskiy sbornik, v. 5, no. 1, 1965, 129-134

TOPIC TAGS: cadmium selenide, photoconductivity, polycrystalline film, spectral distribution

ABSTRACT: The spectral distribution of photoconductivity parameters was measured in polycrystalline layers of cadmium selenide with a constant number of incident quanta. It was found that the photocurrent yield of the specimens is a complex function of the exposure conditions. Bias lighting gives clear reproducible results. Relaxation time is independent of incident wavelength for a constant photocurrent and the minimum relaxation time corresponds to maximum stationary photocurrent. The

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initial differential instantaneous relaxation time is independent of wavelength at high frequencies and increases at lower frequencies. The selectivity of spectral distribution is not significantly affected by an increase in light intensity. Stationary bias lighting reduces selectivity of the spectral distribution by increasing the photosensitivity in the short wave region and reducing it in the long wave region. Maxima in the photoconductivity sometimes appear when the light intensity is increased. The spectral distribution of the photocurrent yield and relaxation time may be due to additional fast recombination centers on the surface and within the layers. The maxima in photosensitivity are due to the structure of the valence band. An increase in the dark conductivity of the layers increases the absolute stationary photocurrent which may be due to filling of capture levels without hole injection. The injection of holes by stationary bias lighting reduces photocurrent since there is an increase in recombination through the electron-filled capture level. This effect is stronger in the case of volume absorption which indicates an increase in recombination speed within the layer. Orig. art. has: 5 figures.

SUB CODE: 20/ SUBM DATE: 18Jun64/ ORIG REF: 006/ OTH REF: 004

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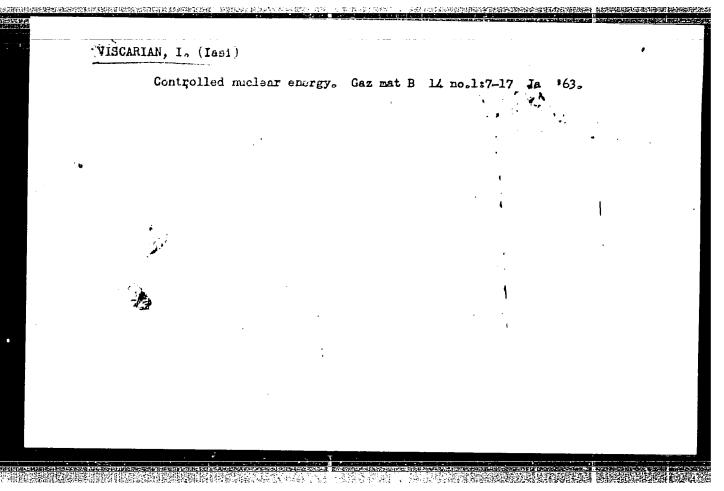
CALINICENCO, N.; REZLESCU, N.; VISCRIAN, I.

Determining the dirunal variation of the terrestrial magnetism of the vertical Z composition & Iasi. Studii fiz tehm Iasi 14 no.2:363-367 os.

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# "X-ray absorption and emission in analytical chemistry" by H.A.Liebhafsky, H.P.Pfeiffer, E.H.Winslow, P.D.Zemany. Reviewed by I.Viscrian. Studii fiz tehn Iasi 13 no.2:311-312 '62.

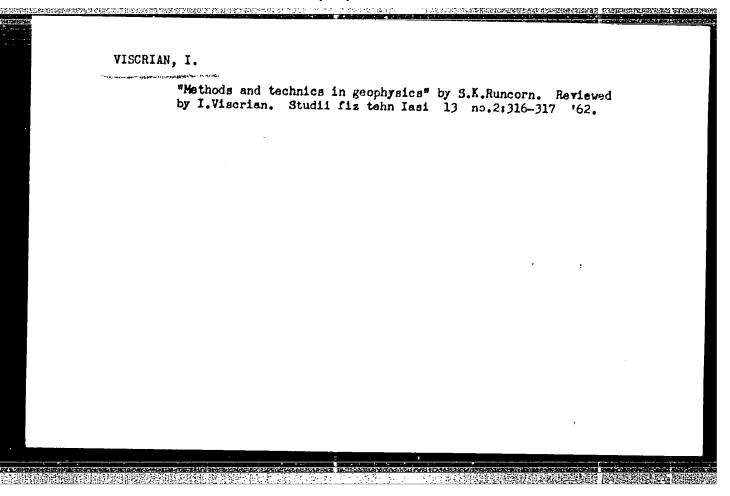
APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860020018-5"



CALINICENCO, Nicolae, prof.; VISCRIAN, I.

Modern methods in measuring the terrestrial magnetic field. Studii fiz tehn Iasi 13 no.1:51-64 '62.

1. Membru al Comitetului de redactie, "Studii si cercetari stiintifice, Fizica si stiinte tehnice" -Filiala Iasi- (for Calinicencp).



LUCA, Ion; TIBU, Margareta; POTEC, I.; VISCRIAN, I.

Radioactivity of the Cotnari soil in the Iasi region. Studii fiz tehn Iasi 13 no.2:291-293 "62.

CALINICENCO, N.; VISCRIAN, I.; LOZNEANU, E.

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Radiometric method of determination of potassium in rocks. Studii fiz tehn Iasi 13 no.2:189-193 '62.

PROCUPIU, Stefan, acad.; VISCRIAN, Ioan

**非国际起源的 4.6%的由来的现在分词**对于1997年让多数的现在分词的对称的对称,这种"4000"的"1000"的"1000"的"1000"的"1000"的"1000"的

Study of the traction influence on the magnetic characteristics of electrolytic iron wire in circular and longitudinal alternating magnetic field. Studii fiz tehn Iasi 14 no.2:235-306 '63.

Study on the magnetomechanical Phenomena of the nickel wire in a circular and longitudinal alternating magnetic field. Ibid.:307-340

PROCOPIU, Stefan, acad.; VISCRIAN, Ioan

Magnetizing intensities on steel and electrolytic iron threads in a circular and longitudinal alternate field; effect of the Barkhausen circular. Studii fiz tehn Iasi 14 no.1:13-36 '63.

# "Recent research on controlled thermonuclear fusion" by C.M. Van Atta

"Recent research on controlled thermonuclear fusion" by C.M. Van Atta, Robert G. Mills, and Arthur H. Snell. Reviewed by Ion Viscrian. Studii fiz tehn Iasi 13 no.1:149-150 '62.

VISCRIAN, Ion, cercetator (Iasi)

Pierre Curie; 1859-1906. Gaz mat B 14 no.5:257-261 My '63.

VISCRIAN, Ioan; TIBU Margareta; PETFESIU, Gabriela

Electronic p rama netic resonance of D.F.P.E in a weak

magnetic fleid. Stulii fiz tehn Iasi 14 no.2;381-391 '65.

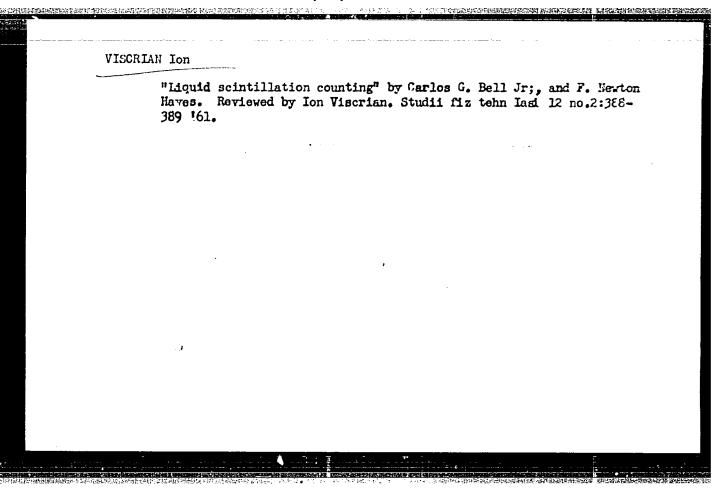
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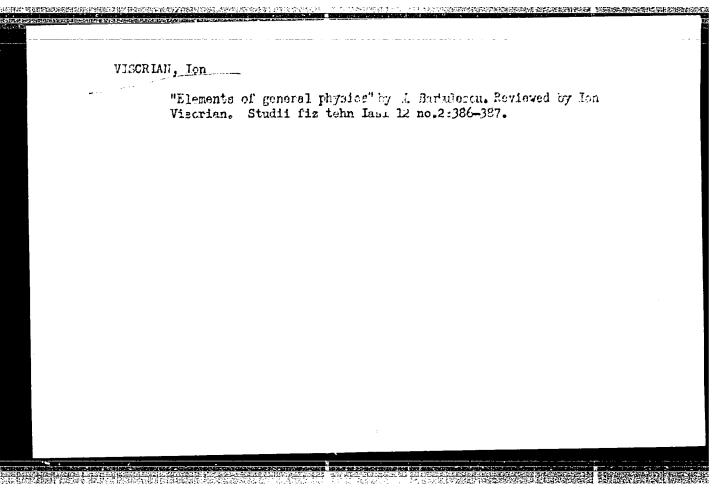
TIEU. Margareta; LEONTE, Candiano; VISCRIAN, I.

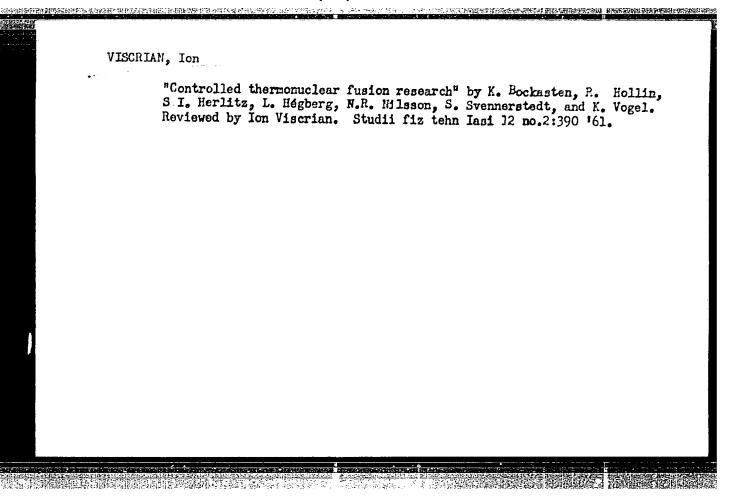
Study of some organic scintillators in solutions. Studii fiz tehn
Iasi 12 no.2:199-205 '61.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860020018-5"

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VISCRIAN, I.; TIBU, M.

A portsble dosimeter for the radiations B. and Y. p. 205.

STUDII SI CERCETARI STINTIFICE. FIZICA SI STINTE TEMNICE. Iasi, Rumania, Vol. 8, no. 2, 1957

Monthly list of European Accessions (EEAI) IC, Vol. 8, no. 8, Aug. 1959

Uncl.

VISELY, K.T.; BOUDA, J.

Examination of protein content in the gastric juice by means of paper electrophorses. Cas. lek.cesk. 99 no.7/8:257-263 19 1.160...

1. Interni oddeleni OUNZ Hodonin, prednosta dr. K.T. Vesely, usredni laborator OUNZ Hodonin, prom.chemik J. Bouda.

(GASTRIC JUICE chem.)

(PROTEINS, chem.)

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AUTHOR:

Karandeyev, K.B., Corresponding Member

Technical Sciences; Vishenchuk, I.M., Senior Scientific

Collaborator; Sheremet'yev, V.A., Senior Engineer

TITLE:

An Electric Phase Meter for Measuring and Oscillographing the Rotor Coasting Angle of Synchronous Machines (Elektronnyy fazometr dlya izmereniya i ostsillografirovaniya ugla vybega rotora sinkhronnykh

mashin)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy -

Priborostroyeniye, 1958, Nr 1, pp ££-£7 (USSR)

ABSTRACT:

The paper proposes a circuit for a phase meter to measure and oscillograph with little phase angle lag, which is essentially free from the normal defects. The lag in this circuit is 0.2 m/sec, it narrows the measuring limits of the angle to 3-4 electric degrees.

Card 1/4

The semi-variable resistances of 100 k ohm in the control grid circuit of the phantastron generator is for correcting sensitivity and makes it possible to

SOV/146-1-1-4/22

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An Electric Phase Meter for Measuring and Oscillographing the Rotor Coasting Angle of Synchronous Machines

establish nominal phase meter measuring limits. The paper contains an accurate description of the phase meter switch circuit and its functions. Then comes an analysis of the errors of this phase meter, in accordance with the nature of the effects on measuring instruments. Three forms are investigated. 1) Time displacements which occur during the transmission of reference voltage and the transmitter signal in the phase meter channels; £) The sensitivity instability of the phase meter which depends on the steepness of the sawtooth voltage, and the transmission factor of the balance-amplifier; 3) The non-linearity of the sawtooth voltage, when using the input measuring unit with a linear scale, which can also lead to errors. The paper also notes as error sources, phase displacement of reference voltage to the power transformer; the starting time of multi-vibrators, the pulse length of multi-vibrators; the electrodynamic power between the contacts of a closed electron key and the displacement

Card 2/4

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860020018-5"

507/146-1-1-4/52

An Electric Phase Meter for Measuring and Oscillographing the notor Coasting Angle of Synchronous Machines

of the zero point at the balance amplifier. Technical characteristics of the phase meter are: 2 limits for angle measurement ± 180°, ± 90°, ± 45°. Indicating instrument is a microammeter for ± 50 micro-amps. Fixing the angle on the oscillograph takes 0.02 secs, delay in oscillographing is practically zero. The phase meter weighs approx. 6 kg. Power consumption is not over 50 watts. The device is few with 110 or 220 volts, at 50 cps. The phase meter measures and oscillographs the rotor coasting angle in synchronous machines within limits of ± 180 electric degrees with an accuracy of up to 0.50 plus 1%. The phase meter works harmoniously with the electromagnetic phase transmitter, which transmits the electrodynamic power, and voltage in pulse form. There are 1 circuit diagram, 6 diagrams, 1 table and 5 Soviet references.

Card 3/4

An Electric Phase Meter for Measuring and Oscillographing the Rotor Coasting Angle of Synchronous Machines

ASSOCIATION: L'vovskiy politekhnicheskiy institut (Lvov Polytechnical Institute)

Card 4/4

THE LOWER PROPERTY STATE CONTROL TO BE THE WARRANT OF THE PROPERTY OF THE PROP

## VISCOR, A.

A study of dermatophytes in workers of agricultural animal husbandry. Bratisl.lek.listy 35 no.5:265-273 15 Mar 55.

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#### VISCOROVA, B.

Syphilis from the pediatric point of view. Cesk.gyn. 15 no.12: 837-842 1950. (CIML 20:6)

1. Of the Children's Diseases Clinic, Slovak University, Bratislava (Head--Docent. Ivan Hecko, M.D.), Author is Assistant to the Head of the Clinic.

S/081/63/000/002/022/088 B166/B138

AUTHOR:

Viscrian, Ion

TITLE:

Carbon 14 in nature and its determination

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 2, 1963, 152, abstract 2E16 (Studii si cercetari stiint. Acad. RPR Fil. Iași. Fiz. si stiinte tehn., v. 12, no. 1, 1961, 111-120 [Rumanian])

TEXT: Methods are described for the proportional and sointillation counting of C<sup>14</sup>. Data are given on the quantity of recent C<sup>14</sup> in various plants and trees in different regions of the Earth. The half-life of C<sup>14</sup> and the limits to dating by the C<sup>14</sup> method are examined with the aid of published data. [Abstracter's note: Complete translation.]

Card 1/1

ANTONESCU, V.; CALINICENCO, N.; NECHITA, O.; ONU, C.; RUSU, Gh. Ille; TOMOZEI, Cl.; TIBU, M.; VESCAN, T. T., prof.; VISCRIAN, I.

Radioactivity of the mining region Rodna Veche-Valea Vinului. Studii fiz tehn Iasi 12 no.1:31-33 '61.

1. Membru al Comitetului de redactie si redactor responsabil adjunct, "Studii si cercetari stiintifice, Fizica si stiinte tehnice" (for Vescan)

VISCRIAN, Ion

Natural carbon 14 and its detection. Studii fiz tehn Iasi 12 no.1: 111-120 '61.

CALINICENCO, N.; NICHITA, O.; VISCRIAN, I.; TIBU, Margareta; ANTONESCU, V.

Contributions to the study and measurement of the radioactivity of certain rocks. Studii fiz tehn Iasi 10 no.1:67-72 '59 (EEAI 9:3)

1. Filiala Iasi a Academiei Republicii Populare Romine.
(Rocks) (Radioactive substances)

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